

(AEC-tr-7338) CONDITIONS FOR WAVE TRANSFORMATION IN A PLASMA WITH A NONMONOTONIC LONGITUDINAL DISTRIBUTION. Arkhipenko, V. I.; Budnikov, V. N.; Obukhov, A. A. (Akademiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheskiy Institut). Translation of report NP-18913. 15p. Dep. NTIS.

Physics (plasma); translations 201

STD-34 P NSA

REVISED CARD

⁴(AEC-tr-7332) ¹RATIO OF LONGITUDINAL AND
TRANSVERSE DIFFUSION COEFFICIENTS IN ARGON SHE DIS-
CHARGE PLASMA. ⁶Budnikov, V. N.; Novik, K. M.; Obukhov,
A. A. ⁷(Akademiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheskii
Institut). ¹⁰Translation of report ¹¹NP-18916. ²⁰5p. ²⁴Dep. NTIS.

²⁴Physics (plasma); translations ²⁷201

²⁸STD-34 ²⁹P NSA

REVISED CARD

(AEC-tr-7327) MEASUREMENT OF THE TRANS-
VERSE DIFFUSION COEFFICIENT IN SHF PLASMA. Bulygin-
skii, D. G.; Vil'dshynas, M. I.; Poloskin, B. P.; Utochkin, B. A.
(Akademiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheskii In-
stitut). 10 Translation of report 11 NP-18917, 20 11p. 24 Dep. NTIS.

25 fusion devices (thermonuclear); physics (plasma); translations
27 18A, 201

28 STD-20 29 P NSA

REVISED CARD

4(AEC-1r-7349) 1INJECTION OF A RELATIVISTIC
ELECTRON BEAM INTO A PLASMA. 6Rukhadze, A. A.; Rukhlin,
V. G. 7(Akademiya Nauk SSSR, Moscow. Fizicheskii Institut).
10Translation of report 11NP-18942. 2016p. 24Dep. NTIS.

26Physics (plasma); translations 27201

28STD-34 29P NSA

REVISED CARD

(AEC-tr-7331) GENERATION OF FAST ELECTRONS
THROUGH INTERACTION OF SHF WAVE WITH COLLISIONLESS
PLASMA. Baryasov, V. I.; Gekker, I. R.; Sizukhin, O. V.;
Khachatryan, Z. G. (Akademiya Nauk SSSR, Moscow, Fizicheskii
Institut). Translation of report NP-18958. 207p. 24Dep. NTIS.

20Physics (plasma); translations 21201

22STD-34 23P NSA

REVISED CARD

(AEC-4r-7369) THEORETICAL AND EXPERIMENTAL
STUDIES OF DIRECT HIGH-CURRENT DISCHARGES IN A VACUUM.
Aleksandrov, A. F.; Zosimov, V. V.; Rukhadze, A. A.; Savoskin,
V. I.; Timofeev, I. B. (Akademiya Nauk SSSR, Moscow. Fizicheskii
Institut). 10 Translated from report 11 NP-18972. 20 43p. 21 Dep.
NTIS.

22 fusion devices (thermonuclear) 23 18A

24 STD-20 25 P NSA

REVISED CARD

(AEC-tr-7333) , EXCITATION OF ELECTRO-
MAGNETIC WAVES IN A PLASMA BY A RELATIVISTIC ELEC-
TRON BEAM. PART I. LONGITUDINAL WAVES. , Rukhadze,
A. A.; Bogdanovich, L. S.; Dolzhenko, O. V. , (Akademiya Nauk
SSSR, Moscow, Institut Fiziki). , Translation of report ANP-
18982. , 21p. , Dep. NTIS.

physics (plasma); translations 27201

STD-34 23P NSA

REVISED CARD

(AEC-42-7361) ANOMALOUS RESONANCE IN SHF
HEATING OF ELECTRONS IN MAGNETIZED PLASMA. Bata-
nov, G. M.; Sarkisyan, K. A. (Akademiya Nauk SSSR, Moscow,
Fizicheski Institut). Translated from report NP-19060.
7p. Dep. NTIS.

physics (plasma); translations 201

STD-34 P NSA

REVISED CARD

(AEC-4r-7372) SOME CHARACTERISTIC FEATURES
OF THE FORMATION OF A MICROWAVE DISCHARGE PLASMA
IN THE PRESENCE OF MAGNETIC FIELDS GREATER THAN
CYCLOTRON. Arkhipenko, V. I.; Budnikov, V. N.; Obukhov,
A. A. (Akademiya Nauk SSSR, Leningrad. Fiziko-Tekhnicheski
Institut). ¹⁰Translated from report ¹¹NP-19073. ²⁰6p. ²¹Dep.
NTIS.

²²Physics (plasma); translations ²¹201

²³STD-34 ²⁴P NSA

REVISED CARD

(AEC-4r-7378) PENETRATION OF WAVES INTO
A PLASMA AT FREQUENCIES CLOSE TO THE LOWER HYBRID
FREQUENCY. Golant, V. E. (Akademiya Nauk SSSR, Leningrad,
Fiziko-Tekhnicheskii Institut). Translated from report 11 NP-
19076. 20 20p. 24 Dep. NTIS.

fusion devices (thermonuclear); physics (plasma); translations
18A, 201

STD-20 P NSA

REVISED CARD

(AEC-4r-7371) 1 ABSORPTION OF MICROWAVES BY
A PLASMA WHICH IS ESSENTIALLY NONUNIFORM ALONG A
MAGNETIC FIELD. 2 Arkhipenko, V. L.; Budnikov, V. N. 3 (Akad-
emiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheski Institut).
4 Translated from report 5 NP-19083. 6 13p. 7 Dep. NTIS.

8 physics (plasma); translations 9 201

10 STD-34 11 P NSA

REVISED CARD

(AEC-4r-7370) RESONANCE PHENOMENA DURING
MULTIPHOTON IONIZATION OF A XENON ATOM IN AN ELEC-
TRIC FIELD E approximately 5×10^7 V/cm. Alimov, D. T.;
Berezhetskaya, N. K.; Delone, G. A.; Delone, N. B. (Akademiya
Nauk SSSR, Moscow, Fizicheskii Institut). 10 Translated from
report 11 NP-19085, 207p. 24 Dep. NTIS.

21 Physics; translations 2720

28 STD-34 23P NSA

REVISED CARD

(AEC-4r-7377) APPLICABILITY OF PERTURBATION
THEORY IN DESCRIBING THE PROCESS OF MULTIPHOTON ION-
IZATION OF AN ATOM. Delone, G. A.; Delone, N. B.; Manakov,
N. I.; Piskova, G. K. (Akademiya Nauk SSSR, Moscow, Fiziko-
skh Institut). 10Translated from report 11NP-19126. 208p. 24Dep.
NTIS.

34physics 3720

38STD-34 38P NSA

REVISED CARD

(AEC-4r-7360) MICROWAVE PLASMA HEATING
EXPERIMENTS IN TUMAN-2 DEVICE. Golant, V. E.; Kagan-
skii, M. G.; Pakhomov, L. P.; Podushnikova, K. A.; Shakhovets,
K. G. (Akademiya Nauk SSSR, Leningrad, Fiziko-Tekhnicheskii
Inst.). ¹⁰Translated from report ¹¹NP-19160. ²⁰16p. ²⁴Dep. NTIS.

²⁰fusion devices (thermonuclear); translations ²⁷18A

²⁰MN-20 ²¹P NSA

REVISED CARD

(AEC-tr-7374) SELF-STRESS OF ELECTROMAGNETIC WAVES IN A DENSE COLLISIONLESS PLASMA. Batanov, G. M.; Silin, V. A. (Akademiya Nauk SSSR, Moscow. Fizicheski Institut). 10 Translated from report 11 NP-19164. 12 9p. 14 Dep. NTIS.

16 physics (plasma); translations 17 201

18 STD-34 19 P NSA

REVISED CARD

⁴(AEC-4r-7382) ¹DEVELOPMENT OF THE CONCEPT
OF PLASMA TURBULENCE. ⁴Tsytoich, V. N. ⁷(Akademiya Nauk
SSSR, Moscow, Fizicheskii Institut). ¹⁰Translated from report ¹¹NP-
19167. ²⁰45p. ²⁴Dep. NTIS.

²³physics (plasma); translations ²⁷201

²⁸STD-34 ²⁹P NSA

REVISED CARD

1(AEC-4r-7373) 1NONTHERMAL EMISSION OF A
MAGNETOACTIVE PLASMA IN THE FIELD OF A SUPERHIGH
FREQUENCY PUMPING WAVE. 1Batanov, G. M.; Sarksyian,
K. A. 1(Akademiya Nauk SSSR, Moscow. Fizicheski Institut).
10Translated from report 11NP-19255. 209p. 21Dep. NTIS.

20physios (plasma); translations 21201

22STD-34 23P NSA

REVISED CARD

(AEC-44-7376) STUDY OF DENSITY FLUCTUATIONS
OF THE L-1 STELLARATOR BY THE CORRELATION METHOD.
Berezhetaki, M. S.; Grebenshchikov, S. K.; Kossyi, I. A.; Sbitni-
kova, L. S.; Shipigel, L. S. (Akademiya Nauk SSSR, Moscow. Fiziki-
cheski Institut). 10 Translated from report 11 NP-19257, 12 27p.
13 Dep. NTIS.

14 fusion devices (thermonuclear); translations 17 18A

21 STD-20 22 P NSA

REVISED CARD

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DENSITY IN STELLARATORS BY MEANS OF AN OPEN MICRO-
WAVE RESONATOR. Akulina, D. K.; Nechayev, Yu. I.; Sud'yen-
kov, V. Ya.; Fedyanin, O. I. (Akademiya Nauk SSSR, Moscow,
Fizicheskii Institut). 10 Translated from report 11 NP-19284. 20 6p.
22 Dep. NTIS.

24 fusion devices (thermonuclear); translations 27 18A

28 STD-20 29 P NSA

REVISED CARD

(AFC-tr-7379) SPECTRA OF MAGNETIC PULSA-
TIONS OF NONISOTHERMAL PLASMA. Iivshits, M. A.; Tsyto-
vich, V. N. (Akademiya Nauk SSSR, Moscow. Fizicheski Institut).
Translated from report NP-19291. 10p. Dep. NTIS.

physics (plasma); transistions 17201

STD-34 P NSA

REVISED CARD

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SEE: Gosudarstvennyi Komitet Po Ispol'zovaniyu Atom
Eng SSSR. Sukhumi

M. P. Syshchikov

*Withdrawal of leading shock wave from a sphere in
argon and nitrogen at supersonic mach numbers.*

RUSSIAN, AN SSSR. Fiziko-tekhnicheskii institut.

*Aerofizicheskiye issledovaniya sverkhzvukovykh
techeniy, 1967, pp 13-20; 21-28*

AIR/FTD-MT-24-1958-71

sept 72

Measuring the Velocity of a Shock Wave, by
N.K. Domaskina, D.M. Dobrynin, et al. 18 pp.
RUSSIAN, rpt, AN SSSR, Fiziko-Tekhnicheskii
Institut. Aerofizicheskiye issledovaniya
Sverkhzvukovykh Teleniy, 1967, pp 54-65.
AIR/FIL/IT-23-340-68

sci/physics
apr may 69

380,117

Measurement of Electrical Conductivity in a
Shock Tube by an Induction Method, by
K.V. Donukoy, R.V. Vasil'yeva. 6 pp.
RUSSIAN, rpt, AN SSSR. Fiziko-Tekhnicheskiiy
Institut, Aerofizicheskiye Issledovaniya
Sverdlovskoykh Tekhnicheskikh Vuzov, 1967, pp 117-120.
AIR/FTD/HT-23-340-68

sci/physics

4 MAY 68

322 111

Effects of Variable Heat Capacity of a Gas
in Supersonic Flow Past Blunt Bodies, by
Yu. P. Lun'kin, T. Ya. Timofeyeva, 23 pp.
RUSSIAN, par, AN SSSR. Fiziko-Tekhnicheskiy
Institut, Aerofizicheskiye Issledovaniya
Sverdlovskoykh Tekhnicheskikh Vuzov, 1967, pp 128-142.
P100262568-V
FTD-AT-24-49-68

Sci/Phys
Oct 68

366,931

Pressurized Ballistic Installation, by
G. I. Mishin, N. P. Penco. 8 pp.
RUSSIAN, por, AN SSSR. Fiziko-Tekhnicheskii
Institut. Aerofizicheskiye Issledovaniya Sverkh-
zvukovykh Tsecheniy, 1967, pp 163-168.
AIR/PTD/AT-23-282-69

sci/aeronautics
feb 70

401,079

Ballistic Range for Aerodynamic Investigations,
by I. V. Basargin, I. M. Derent'yev, et al.
14 pp.

RUSSIAN, rpt, NI SSSR, Fiziko-Tekhnicheskii
Institut, Aerofizicheskiye Issledovaniya Sverk-
hzvukovykh Teleniy, 1967, pp 168-188.
AIR/PTD/IT-23-282-69

sci/aeronautics
feb 70

401,080

Automatic Synchronizing Equipment for Ballistic
Stixiles, by G. I. Mishin, I. N. Rodicheva.

9 pp.

RUSSIAN, rpt, AN SSSR. Fiziko-Tekhnicheskii
Institut. Aerofizicheskiye Issledovaniya Sver-
khvukovykh Teleniy, 1967, pp 184-187.

ATN/FTD/II-23-282-69

sci/military
feb 6 70

401,081

Designing a Light-Gas Gun With Light Piston,
by S. N. Palkin, B. I. Raznikov. 16 p.
RUSSIAN, rpt, AN SSSR, Fiziko-Tekhnicheskiy
Institut, AeroFizicheskiya Issledovaniya
Sverkhzvukovykh Tekhnologii, 1967, pp 210-218.
AIR/FIL/ET-24-238-68

sci/mechan engr
feb 69

375,657

High-Speed Photography With a Rate
Up to 40,000 Frames Per Second, by
A. N. Berezkin, M. K. Berezkina, 6 pp.
RUSSIAN, bk, AN SSSR, Fiziko-
Technicheskiy Institut, Aerofizicheskiye
Issledovaniya Sverkhzvukovykh Tekhnol.
1967, pp 227-233.
P100231168-V
FTD-MT-24-370-67

Sci/Methods and Equip
Sep 68

364,316

Method of Asymptotic Integration of Laminar
Boundary Layer Equations, by B. I. Reznikov. 25 pp.
RUSSIAN, rpt, AN SSSR, Fiziko-Tekhnicheskiy
Institut, Aerofizicheskiye Issledovaniya
Sverdlovskoykh Tacheniy, 1967, pp 284-300.
ALR/FTD/R-24-34-68

sci/physics
feb 69

376,461

An Investigation of the Recombination
Radiation From p-n Junctions in Gallium
Antimonide, by
I. V. Kryukova, L. I. Paduchikh, 5 pp.
RUSSIAN, bk, AN SSSR. Fiziko-Tekhnicheskiy
Institut, AN LATSSR. Fiziko-Energeticheskiy
Institut, Fizika p-n Perekhodov. Riga,
Izd-vo "Zinatne", 1966, pp 310-315.
AIR/PTD/HT-23-1475-67

Sci/Phys
Jan 69

353,234

Experiments in Stereophotogrammetric Determination of Depths and Surveying Underwater Relief in Shallow Seas, by N.A. Loseva. 10 pp. RUSSIAN, rpt, AN SSSR. Geograficheskoye Obshchestvo Novyye Problemy i Metody Kartografi, 1967, pp 25-31.

AIR/FTD/MT-23-654-68

sci/earth sci
may 69

381,246

Use of. Chebyshev Polynomials for Computing a
Cartographic Projection From a Draft Grid, by
A. A. Paplov. 9 pp.

RUSSIAN, rpt, AN SSSR. Geograficheskoye Obsh-
chestvo Novyye Problemy i Metody Kartografii,
1967, pp 32-39.

AKH/PTI/IR-23-654-68

sci/mathematics

Effect of Mixture Formation on the Combustion
Process of Gaseous Fuel in a High Speed
Stream, by V. M. Ivanov, 12 pp.
RUSSIAN, per, AN SSSR. Gosdizvestvennyy
Komitet po Toplivnyy Promyshlennosti pri
Gosplane SSSR. Institut Goryuchikh Iskopayemykh
Novyye Metody Szhiganiya Tseliv, 1965,
pp 95-105.
FI00152268-V
FTD-HT-23-509-67

Sci-Propulsion & Fuels
Aug 68

362,321

An Automatic Rotary Device for the Manufacture
of Coatings With Crystallization Under Pressure,
by L. P. Vasil'kovskiy, Ya. G. Malakhov, et al.
4 pp.

RUSSIAN, rpt, AN SSSR, Gosudarstvennyy Nauchno-
issledovatel'skiy Institut Mashinovedeniya,
1967, pp 167-169.

AIK/TID/II-24-230-69

sci/medien enyr
feb 70

402,673

AN SSSR, GNIIM, AVTOMATIZATSIYA PROTSESSOV SVARKI I
OBRABOTKI DAVLENIYEM, 1968, pp 3-105 189 Eng pp
AIR/FTD-MT-84-200-68

Popov, P. Z.

The anisothermal problem of the hydrodynamic theory of lubrication of a thrust bearing with nondeformed and deformed pad. 19 pp.

AN SSSR GOSUDARSTVENNYY NAUCHNO-ISSLEDOVATEL'SKIY
INSTITUT MASHINOVEDENIYA. RAZVITIYE GODRODINAMICHESKOY
TEORII SMAZKI, 1970, pp 105-120
AIR/FTD-MT-24-610-72

Antifriction Proper Ties of Solid Lubricant
Coatings in an Inert Gas Atmosphere and in
Vacuum, by R. M. Matveyevskiy,
L. N. Sentyurikhina. 13 pp.
RUSSIAN, per, AN SSSR. Gosudarstvennyy Nauchno-
Issledovatel'skiy Institut Mashinovedeniya.
Trunki i Iznos v Mashinakh, No 20, 1968,
pp 168-177.
AIR/FTD-HT-23-659-79

sci/mechan engr
may 70

Investigations in structural mechanics
Akademiya Nauk Gruzinskoj SSR. Institut Stroitelnoi
melhaniki i seismostoikosti. Izdatelstvo Metsniereba
Tbilisi, 1970. 143pp.
*NTIS-73-58019

Apr 73

Parrocene-Containing Polymers. 18 pp.
RUSIN, rpt, AN SSSR. Icos. Uspekhi v Oblosti
Sinteza Elementoorganicheskikh Polimerov, 1966
pp 212-223
AIR/FTD/IR-23-306-68

sci/materials
feb 69

375,633

Measuring the Plasma Energy in the Tokamak-3
Device, by S. V. Smirnov, 46 pp.
RUSSIAN, rpt, Akad Nauk SSSR, Institute Atomnoi
Energi.
AEC/MATT-Tr-87

Sci/Phy
Jan 70

400,160

Transport Coefficients in a Plasma in the T11-3
Tokamak, by G. A. Bobrovskiy, Ye. I. Kuznetsov,
16 pp.
RUSSIAN, rpt, Order of Lenin, Atomic Energy Inst
in I. V. Kurchatov, Oct 1969.
AEC/Matt-Tr-93-69

Sci/Phy
Dec 69

398,111

The Modular Construction Principle of
Continuous Action Industrial Regulators,
by A. I. Birman, A. A. Tagayevskaya.
RUSSIAN, rpt, AN SSSR, Inst Avtomatiki
i Telemekhaniki, 1966, pp 71-80.
KFB/FTD/MT-24-86-68 AD 679 804

Sci-Mech
Feb 69

Estimation of Influence of Discreteness and
Method of Numerical Integration on the Accuracy
of Solution of Equations of a Nonlinear Automatic
Control System, by N. G. Guncharenko. 17 pp.
RUSSIAN, rpt, AN SSSR. Institut Avtomatiki i
Telemekhaniki. AN UKSSR. Institut Kibernetiki.
Vychislitel'naya Tekhnika v Upravlenii, 1966,
pp 46-55.
AIR/PTD/UA-23-731-68

sci/ mathematics
nov 69

397,003

Certain Remarks on Solving Control Problems by a
Statistical Method Using Special Computers, by
Yu. S. Valdenberg. 6 pp

RUSSIAN, rpt, AN SSSR. Institut Avtomatiki i
Telemekhaniki. AN USSR. Institut Kibernetiki.
Vychislitel'naya Tekhnika v Upravlenii, 1966,
pp 452-456.

FTD S-735

408-69

july 69

384,314

On the Problem of Cavitation Phenomena
in Servomechanisms, by G. N. Kryazev, 4 pp.
RUSSIAN, per, AN SSSR. Institut Avtomatiki i
Telemechaniki, "Gidravtomatika", Izd-vo
"Mashin", Moscow, 1965, pp 80-83.
AIR/FID/HT-23-1196-67

Sed-Phys
Jan 69

370,890

Elements and Modes of a DDA in Ferrite-
Transistor Cells, by O. F. Kucherov and
V. I. Maksimova, 14 pp.

RUSSIAN, per, AN SSSR. Institut Avtomatiki i
Telemekhaniki Magnitnyye Tsifrovyye Elementy,
1965, pp 201-212.

F100251568-V

FTD-MT-24-268-67

Sci-Electronics
Oct 68

366,154

Identification and Differentiation of Hand-
writings with the Help of Electronic Computers,
by B. N. Kozinets & R. M. Lantman, 11 pp.
RUSSIAN, par, Moscow, Institut Avtomatiki i
Telemechaniki. Samobuchayushchiye Avtomati-
cheskiye Sistemy, 1966, pp 21-28.
P100116868-V
FTD-MT-24-230-67

Sci/Electr & Electr Engr
Jul 68

360,114

Experiments in Teaching a Machine to Identify
Forms Without Encouragement, by E. H. Braverman,
A. A. Dorofeyuk.
RUSSIAN, rpt. AN SSSR, Institut Avtomatiki i
Telemechaniki (Tekhnicheskoy kibernetiki)
"Samobuchayushchiye avtomaticheskiye sistemy".
1966, pp 29-35. P100117568-V
FTD-MT-2A-239-67

Sci.-Elec
Jul 68

359,898

A Learning System for the Identification of
Visual Forms of a Certain Class, by V. A. Ganzen,
R. M. Grunovskaya.
RUSSIAN, rpt. AN SSSR, Institut Avtomatiki i Tele-
mekhaniki (Tekhnicheskoy Kibernetiki) "Samoobuchayu-
shchiesya Avtomaticheskiye Sistemy", 1966, pp 102-
107. F100117566-V
FTD-IT-24-239-67

Sci-Mlec
Jul 68

359,899

Combined (Deterministic-Self-Teaching) Control
Systems for Complex Processes, by
A. G. Ivakhnenko. 21 pp.
RUSSIAN, pp. AN SSSR, Institut Avtomatiki i
Tekhnicheskoye. Samobuchayushchiesya Avtonati-
cheskiye Sistemy, 1966, pp. 135-147.
AIR/FTD/AF-24-298-68

sci/mechan enyr
apr 69

380,071

An Experimental Investigation of the
Self-Adaptation Functions of the
Human Operator, by G. A. Sergeyev,
20 pp.

RUSSIAN, bk, AN SSSR. Institut
Automatiki i Telemekhaniki.

"Samoobuchayushchiyesya Avtomati-
cheskiye Sistemy", 1966, pp 222-232

P10020/100-V

FTD-NT-67-337

Sci-Beh/Soc Sci
Sep 68

364,243

Instruments for Determining Correlation
Functions, by K. V. Tomingas & M.S. Alabyan,
8 pp.
RUSSIAN, per, AN SSSR. Institut Avtomatiki i
Telemekhaniki. Tekhnicheskaya Kibernetika.
1965, pp 56-60.
F100017868
FTD-HT-66-598

Sci-Mathematical Sci
Feb 68

350,613

Scanning Device Utilizing a Fiber-
Optical Converter, by O. I. Karyagin,

6 pp

RUSSIAN, BK. An SSSR. Institut

Avtomatiki i Telemekhaniki.

Tekhnicheskaya Kibernetika, 1965,

pp 326-336

P100163268-V

FTD-MT-24-314-67

Sci-Electro/Electri Engr 364,154

Sep 68

The Expansion of Three-Valued Logic Functions,
by B. A. Kaklyugin, 11 pp.
RUSSIAN, rpt. AN SSSR. Institut Avtomatiki i
Telemechaniki, Tekhnicheskaya Kibernetika,
1965, pp 368-372. P100264868-V
PTD-MIT-23-912-67

Sci/Elect
Nov 68

366,992

The Synthesis of Nonredundant Series-Parallel Structures by the Combinatorial Method, by V. R. Gorovoy. 6 pp.
RUSSIAN, rpt, AN SSSR. Institut Avtomatiki i Telemekhaniki. Tekhnicheskaya Kibernetika, 1965, pp 366-372. P100264868-V
FTD-REF-23-912-67

Sci/Nav1
Nov 68

366.991

A Logic Machine for Automatic Synthesis of
(1, k)-Terminal Switching Networks,
by V. E. Gorovoy, 10 pp.
RUSSIAN, per, AN SSSR. Institut Avtomatiki
i Telemekhaniki (Tekhnicheskoy Kibernetiki),
Izd-vo "Sovetskoye Radio", 1966, pp 259-276.
FI00153638-V
FED-MR-24-318-67

Sci-Physics
Aug 68

362,294

A Set of High-Speed Core-Diode Modules,
by G. I. Dmitrakova, N. G. Zherubtsov, 6 pp.
RUSSIAN, per. AN SSSR, Institut Avtomatiki i
Telemekhaniki (Tekhnicheskoy Kibernetiki).
Magnitnyye Elementy Vychislitel'noy Tekhniki,
1966, pp 63-67.
AIR/FTD/MT-24-366-67

Sci-Elect & Elect Engr
Jan 69

370,793

Thin Film Matrix Memory with a Conductive Substrate, by Ye. F. Berezinoy, V. V. Kobalev, 9 pp.

RUSSIAN, per, AN SSSR, Institut Avtomatiki i Telemekhaniki (Tekhnicheskoy Kibernetiki), Magnitnyye Elementy Vychislitel'noy Tekhniki, 1966, pp 100-106.
AIR/FTD/MT-24-366-67

Sci-Elect & Elect Engr
Jan 69

220 701

Possible Criteria for Evaluating Information
Reliability of Magnetic Storage Devices, by
Ye. P. Balashov, V. L. Genkin, 10 pp.
RUSSIAN, rpt. AN SSSR, Institut Avtomatiki i
Telemechaniki. "Magnetnoye Shtoroye Vychislitel'
noy Tekhniki", Izd-vo "Nauka", Moscow, 1966,
pp 164-169.
AIR/FTD/MT-24-21-68

Sci-Elect & Elect Engr
Jan 69

370,908

Certain Problems of Combined Computer Technology,
by B. Ya. Rogan. 21 pp.

RUSSIAN, rpt, AN SSSR, IAT (TK), Vychislitel'-
naya Tekhnika v Upravlenii, 1966, pp 5-18.

ATT/FTD/AM-24-168-68

sci/Electronics
mar 69

376,554

Sukhomlinov, M.M.

Analog-digital computer using magnetostrictive delay lines. 10 pp.

AN SSSR, INSTITUT AVTOMATIKI I TELEMEXHANIKI
(TEKHNICHESKOY KIBERNETIKI) "VYCHISLITEL'NAYA TEKNIKA V
UPRAVLENII, 1966, pp 143-152. P100244968-V
FTD-MT-24-289-67

Combined Calculating Device, by G. K. Krug,
I. A. Sirmay, 6 pp.
RUSSIAN, per. AN SSSR. Institut Avtomatiki i
Telemekhaniki. Vychislitel'naya Tekhnika v
Upravlenii, 1966, pp 152-157. F100078268-V
FTD-MI-24-240-67

Sol-Elec
May 68

356.389

Semiconductor Multichannel Digital-to-
Analog Converter With a Voltage Memory,
by V. G. Katyushkin, 8 pp.
RUSSIAN, bk, AN SSSR, Institut Avtomatiki
i Telemekhaniki. "Vychislitel'naya
Tekhnika v Upravlenii", 1966, pp 191-196.
AIR/FTD/HT-23-1629-67

Sci/Elec
Jan 69

353,254

Improvement of Computer Accuracy by Means of
Adjustment, by R. M. Narezh. 13 pp.
RUSSIAN, rpt, AN SSSR. INT(TK). Vychislitel'naya
Tekhnika V Upravlenii, 1966, pp 436-444.
ATT/PTD/ML-24-227-68

Sci/Electronics
Feb 69

375,530

Some Problems in Preventing Motion Inter-
ferences During Prolonged EEG Investigations,
by Ye. D. Dubrovin. 11 pp.

RUSSIAN, rpt, AN SSSR, IBF. Radioelektronnyye
Prihory Dlya Biologicheskikh i Meditsinskikh
Issledovaniy, 1966, pp 18-28.

AIK/ETD/IM-23-336-68

sci/b and m
may 69

380,128

Chabotarav, R. P.

System for precision ranging of meteor trails. 8 pp
AN TADZH SSSR, INSTITUT ASTROFIZIKI BYULLETEN', No 55,
1970, pp 29-33
AIR/FTD-HT-23-1719-72

The Effect of Ultraviolet Light on Colorless
Flagellates, by M. M. Kamshilov, 60 pp.
RUSSIAN, par, AN SSSR, Institut Biologii
Vnutrennikh vod, Trudy, Biologicheskoye
Protsessy vo Vnutrennikh Vodoyemakh,
Nos 9 and 12, 1965, pp 255-299.
AIR/FTD/HT-23-1482-67

Sol-BAM
Jan 69

370,884

Programmed Training: New Problem, New Perspectives,
by A. Pshenichnikov, et al.
RUSSIAN, per, AN SSSR. Institut Ekonomiki.
Voprosy Ekonomiki, No 10, 1956, pp 155-157.
FTD S-~~722~~ 441-69

441-69

july 69

384,303

System of Controlling Aerial Instruments with
the Aid of a Digital Arithmetical Machine, by
Ya. B. Arkhangel'skiy. V. A. Ryaznikov. 13 pp.
RUSSIAN, per. AN SSSR, Institut Elektromekhaniki,
1965, pp 128-136. P10093127
FTD-HT-66-451

Sci. Files
Jan 68

948,630

Program Logical Methods of Increasing the
Reliability of Digital Control System,
by Yu. B. Arkhangel'skiy and V. V. Zhdanovich,
6 pp.
RUSSIAN, per, AN SSSR. Institut Elektromekha-
niki. "Avtomatizirovannyy Elektroprivod",
1965, pp 167-173.
F100256868-V
FTD-HT-23-517-67

Sci-Electronics
Oct 68

366,159

Servodrive with Continuous Control, by P. V.
Nikolayev, I. P. Roshnova, 12 pp.
RUSSIAN, per, Am SSSR. Institut Elektromekhaniki.
Avtomatizirovanny Elektroprirod, Sladya-
shchiye Sistemy, Upravleniye i Preobrazovatel'-
nyye Ustroystva, 1965, pp 86-87.
P100303167
FTD-MT-66-122

Sci-Electronics and
Electrical Engr.
Dec 67

344,429

Methods of Increasing Interference Rejection
of Computer Processes, by V. V. Mikhaylov,
10 pp.

RUSSIAN, AN SSSR. Institut. Elektromekhaniki.
Gosudarstvennogo Komiteta po Elektrotekhnike
pri Gosplane SSSR. "Avtomaticheskiye i Tele-
informatsionnyye Sistemy", Moscow-Leningrad,
Izd-vo Nauka, 1965, pp 85-92.

FI00253168-V

FTD-MF-24-339-67

Sci-Electronics & Elec Engr.
Oct 68

366,134

The Designing of Data-Transmission Systems, by
V. V. Dubnitskiy, M. I. Ladin. 6 pp.
RUSSIAN, rpt, AN SSSR, Institut Elektromekhanika.
Sistemy Upravleniya i Kontrolya, 1968, pp 59-66.
AIR/FID/IT-23-306-69

sci/electronicis
feb 70

402,774

Formation of High-Frequency Channels of Transmission of Information Over High-Voltage Cable Lines, by G. I. Vladimirova. 11 pp.
RUSSIAN, rpt, AN SSSR, Institut Elektronika i Sistemy Upravleniya i Kontroliya, 1968, pp 75-86.
AIR/ITD/IT-23-306-69

sci/electronics
feb 70

402,775

A Ferrite-diode Control Machine for Automatic
Tracking Systems, by Yu. B. Arkhangel'skiy,
V. M. Kiselev. 37 pp.
RUSSIAN, rpt, AN SSSR. Institut Elektromekhaniki
Radiofizyke Sistemy Upravleniya Tekhnymi Makh-
enismami, 1967, pp 147-174.
AIR/FEB/INT-23-424-68

Sci-Mav
Nov 69

396,727

Principles of Automatic Detection of Malfunctions
in Digital Computers, by S. E. Denisov,
V. N. Chervonenko, 8 pp.
RUSSIAN, rpt, AN SSSR, Institut Elektromekhaniki.
Tsifrovoye Upravleniye v Sluchayakh Avtomatiki,
Leningrad, 1968, pp 39-44.
AIR/PTD-HR-23-39-70

sci/electronics
may 70

Appraisal of the Possibility of Operation of an
Azimuth-Mounted Optical Telescope with an
Electronic Digital Control System, by
Ye. M. Neplokhov. 11 pp.
RUSSIAN, rpt, AN SSSR. Inst Elektromekh Tsifrovaya
Upravleniya v Sistemakh Avtomatiki, 1968,
pp 173-182.
AIR/FTD/MT-24-49-70

Slavkov, S.

The concept of mathematical structure and its essence.
15 pp.

AN SSSR INST. FILOSOFII VOPROSY FILOSOFII, 1970,
pp 67-77

ACSI-K-8623

FSTC-HT-23-2048-72

REQ TR CHECK " " 13-03-73

T346

THE COLLECTIVE CYCLIC ACCELERATOR - THE
GYROTRON

KOLOMENOKIY, A A

UR: AN SSSR. FIZICHESKIY INSTITUT. IM.
P N LEBEDEVVA. LABORATORIYA PROBLEM NOVIKH

USKORITELEY. PREPRINT 141, 1972, pp. 1-31

*Proven in an**HT 73-23-0338**NCG
28 MAR 73*

Electrochemical and Corrosion Behavior of
Titanium During Its Polarization by Alter-
nating Current of Various Frequencies, by
N. D. Tomashov, N. M. Strukov. 16 pp.
RUSSIAN, rpt, AN SSSR. Institut Fizicheskoy
Khimiy. Korrozinya i Zashchita Konstruktsionnykh
Materialov, 1966, pp 83-96.
ADR/FTD/MC-24-495-68

Sci-Materials
Nov 69

395,883

Rapid Action Digital Computer for Processing
Geophysical Information, by L. V. Goncharov. 8 pp
RUSSIAN, per, AN SSSR. Institut Fiziki Zemi.
Apparatura i Metodika Seysmometri. cheskikh
Nabliyudeni, 1966, pp 152-159.
FTD S-24 440-69

440-69

july 69

384,302

Possibilities of Increasing the Distances
at which Geoacustics Methods are Useful
in Finding Nonhomogeneities in Rocks in
the Presence of Intense Noise, by

V. N. Mikhaylovskiy, V. N. Pervushin.

RUSSIAN, per, ANSSSR, Institut Fiziki
Zemli, Geoakustika; Ispol'zovaniye Zvuka
i Ul'trazvuka v Seysmologii, Seysmoraz-
vedke i Gornom Delo, 1966, pp 148-153.
AIR/FTD/HT-23-1592-67

Sci-Meth & Equip
Feb 69

374,393

Ultrasonic Investigation of the Velocity of Elastic
Waves in Porous Sedimentary Rocks, by G. I. Petkevich,
11 pp.

RUSSIAN, rpt, Akad Nauk SSSR Inst Fiz Zemli,
Soyet Po Geofiz. (Moscow) 1956, pp 119-124.
NASA-TT-F-13655

Sept 71

Bashilov, I. P.

A computer for a marine gravimeter with an optical-mechanical converter. 24 pp

AN SSSR. INSTITUT FIZIKI ZEMLI. PRIBORY DLYA OPREDELENIYA
SILY TYAZHESTI NA MORE I IKH ISSLEDOVANIYA, 1966 ,

P100251268-V

FTD-MT-24-13-68

Asayev, Yu. G.

*A study of certain polymers with a conjugate-bond
system using ERP and IR spectroscopy methods. 5 pp.*
AN SSSR. INSTITUT FIZIKI AN RADIOSPEKTROSKOPIYA TVERDOVO
TELA, 1967, pp 408-410
AIR/FTD-HT-23-253-68

Meshchenko, V. M.

*Principles of Medio-Geographical description of
Geochemical landscapes . 6 pp.*

*AN SSSR INSTITUT GEOGRAFIY GEOKHIMIYA LANDSHAFTA,
pp 148-154 and title page 1967*

ACSI K-0921

Moroz, G. V.

*The problem of modeling the behavior of hydrogen in
steel at high temperatures and pressures. 4 pp*
AN SSSR, INSTITUT GEOKHIMII I ANALITICHESKOY KHIMII.
METODY OPREDELENIYA SOSTOYANIYE GAZOV V METALLAKH,
1968, pp 243-246
AIR/FTD-HT-23-357-69

Asviyan, M. B.

Influence of hydrogen on the mechanical properties of steel at high temperatures and pressures. 6 pp.

AN SSSR. INSTITUTE GEOKHIMII I ANALITICHESKOY KHMII.

METODY OPREDELENIYA SOSTOYANIYA GAZOV V METALLAKH,

1968, pp 260-265

AIR/PTD-HT-23-357-69

Incandivity of Complex Inductive Circuits, by
V. I. Serov.
RUSSIAN, per, AN SSSR Institut gurnogo dela in
A. A. Skochinskogo, Moscow, 1966, 93 pp.
NLI Ref: 8313.4 (5407)

Sci/Mech, Indus, Civ & Mar Engr
Feb 68
349,609

Influence of Some Conditions of Combustion on
the Electrical Conductivity of a Gas-Air
Toron, by G. S. Galovins, B. V. Kantorovich,
6 pp.

RUSSIAN, per, AN SSSR, Institut Goryuchikh
Iskopyayemikh, Novyye Metody Szhiganiya Topliva
i Vozrozy Izvli Goreniva, Izd-vo "Nauka",
Moscow, 1968, pp 120-125.
AIR/FTD/HT-23-1197-67

Sci-Chem
Jan 69

371,895

New Methods in the Combustion of Fuels and
Problems in the Theory of Combustion, by
V. M. Ivanov, A. I. Frankina. 19 pp.
RUSSIAN, par, AN SSSR. IGI. Novyye Metody
Szhiganiya Topliv i Voprosy Teorii Goreniya,
1965, pp 146-161.
AIR/FTD/MR-24-198-68

Sci/Propulsion & Fuels
Feb 69

375,548

REQ TR CHECK

2-5-5

TEI4

FUEL COMBUSTION IN SUPERSONIC FLOW

CHERNOV, ~~V.M.~~, KISELEVA, YE.N.

UR-AN SSSR. INSTITUT GORYUCHIKY ISKOPAYEMYKH.

SBORNIK. KINETICS AND AERODYNAMICS OF

FUEL COMBUSTION PROCESSES (KINETIKA I

AERODINAMIKA PROTSESSOV GORENIYA TEPLIN)

1972, PP 47-51

Proven in an
*HT 72-22-1112**Negative*
8 May 72

Some questions on the History of the Theory of
Errors, by G. B. Shagrin.
RUSSIAN, per, Alfreda Bank SSSR. Institute Istorii
Yestestvoznaya i Tekhniki, Moscow, 1967, pp 13.
Dept of Comm.
Nat Bur of Standards

Sci/Miscellaneous
Jan 68

345,973

Bakhman, N. N.

Burning of heterogeneous condensed systems. 214 pp.
AN SSSR. INSTITUT KHIMICHESKOY FIZIKI, 1967, pp 3-226
P100164268-V
FTD-MT-24-315-67

N. G. Yegorov

*Study of unidirectional glass-reinforced plastics on
ring-shaped specimens. 7 pp.*

RUSSIAN, AN SSSR. Institut khimicheskoy fiziki. Fiziko-
khimiya i mekhanika oriyentirovannykh stekloplastikov

1967, pp 248-253

AIR/FTD-HT-23-323-72

sept 72

New Types of Polymer Binders for Production of
Glass Fiber Reinforced Plastics of the S'AM Type,
by L. M. Brusentsova, R. A. Datyuk, et al. 7 pp.
RUSSIAN, rpt, AN SSSR. Institut Khimicheskoy
Fiziki Laboratoriya Armirovannykh Plastikov.
Fiziko-Khimiya i Mekhanika Oryentirovannykh
Stekloplastikov, 1967, pp 43-48.
AIR/PTD/IN-23-543-68

sci/mechan engr
feb 70

401,029